

IN THE CLAIMS:

Please add new Claims 68 to 71 and amend the claims as follows. The claims, as pending in the subject application, read as follows:

1. (Currently Amended) A method Method for managing the resources of[.] a wireless computer communication network, wherein said network comprises at least one base station and a plurality of processing devices as mobile stations, for processing a computer document stored on a processing control device connected by said network to at least one of said processing devices, said method comprising the steps of:

locating said processing devices in said network so as to obtain a position of each of said processing devices in said network, said locating step comprising a step of switching a station operating as a mobile station to a base station operating mode when there are an insufficient number of base stations in said network to perform said locating step; and

a first selecting step of selecting, from among said plurality of processing devices, at least one processing device as a function of a group of position criteria relating to the position of said processing devices, so as to obtain a first selected group of processing devices means for processing a computer document stored on a processing control device connected by said communication means to at least one processing device, characterised in that it includes a step of selecting at least one processing device of said communication means as a function of a first group of criteria relating to the functioning of said device, and a second group of criteria relating to its geographical situation.

2. (Currently Amended) Management method The method according to claim 1, further comprising characterised in that it also includes, after the said first selection step, a second step of selecting, among said first choosing (E8) a processing device amongst those selected group of processing devices, one processing device as a function of a group of operating criteria relating to the functioning of said processing devices.

3. (Currently Amended) Management method The method according to claim 1, wherein or 2, characterised in that said group of position operating criteria includes characteristics chosen from among a place in which said parameters relating to the configuration capability of the processing device is situated, the device's proximity with respect to a given place, the device's distance with respect to a given place, or the device's distance with respect to said control device.

4. (Currently Amended) Management method The method according to claim 1 3, wherein:

a search operation is performed, consisting of seeking the presence of at least one base station in an environment of said processing device;

if the presence of at least one base station is detected, for each base station detected, a measuring operation is performed, consisting of measuring the position of said processing devices and determining the precision of the measurement made;

and, if the precision of the measurement made is less than a predetermined value;

a change of mode request operation is performed, consisting of requesting a hybrid station operating in mobile station mode to switch into base station operating mode;
and

a switching operation is performed, consisting of, for said hybrid station,
switching from mobile station operating mode to base station operating mode, in order to
constitute a new base station characterised in that the value of said parameters relating to
the configuration capability is determined as a function of the content of said document to
be processed.

5. (Currently Amended) Management method The method according to
claim 4, wherein, during said measuring operation, the position of said processing devices
which are mobile stations is measured from a plurality of information items transmitted by
the detected base station anyone of Claims 1 or 2, characterised in that said group of
operating criteria includes characteristics chosen in particular from amongst the type of
processing device, the ability to process a colour file, the ability to process a file on both
sides of the paper, the maximum resolution factor, the number of grey levels or the number
of colour shades.

6. (Currently Amended) The method according to claim 5, wherein,
during said measuring operation, said plurality of information items includes a value of the
power of the radio signal received from the base station Management method according to
anyone of Claims 1 or 2, characterised in that said group of operating criteria includes a
maximum number of documents awaiting processing.

7. (Currently Amended) The method according to claim 5, wherein said plurality of information items further includes a value of a mobility parameter broadcast by the base station Management method according to Claim 1 or 2, characterised in that said group of geographical situation criteria includes characteristics chosen in particular from amongst the place where said processing device is situated, its proximity with respect to a given place, its distance with respect to a given place, or its distance with respect to the control device.

8. (Currently Amended) Method The method according to claim 5, wherein said plurality of information items further includes a value of a position parameter broadcast by the base station anyone of Claims 1 or 2, characterised in that said communication means is a local wireless network.

9. (Currently Amended) Method The method according to claim 2, wherein said group of operating criteria includes parameters relating to the configuration capability of said processing devices Claim 7, characterised in that, in order to determine the place where the processing device is situated, its proximity with respect to a given place, its distance with respect to a given place, or its distance with respect to the control device, when there are not sufficient base stations to do this, at least one hybrid station operating in mobile station mode is switched to base station operating mode.

10. (Currently Amended) Method The method according to claim 9, wherein the value of said parameters relating to the configuration capability is determined

as a function of the content of said computer document to be processed Claim 9,
characterised in that:

- a search operation (303) is performed, consisting of seeking the presence of at least one base station (S8) in the environment of said processing device;

- if the presence of at least one base station (S8) is detected, for each base station detected, a measuring operation (311) is performed, consisting of measuring the position of said processing device and determining the precision ("Intrinsic precision") of the measurement made;

and, if the precision ("Intrinsic precision") of the measurement made is less than a predetermined value ("Precision");

- a change of mode request operation is performed, consisting of requesting a hybrid station operating in mobile station mode to switch into base station operating mode; and

- a switching operation is performed, consisting, for said hybrid station, of switching from mobile station operating mode to base station operating mode in order to constitute a new base station.

11. (Currently Amended) Method The method according to claim 2,
wherein said group of operating criteria includes characteristics chosen from among a type
of processing devices, the ability to process a color file, the ability to process a file on both
sides of a paper, a maximum resolution factor, a number of grey levels or a number of
color shades, or a bandwidth available on the network anyone of Claims 1 or 2,
characterised in that said communication means is a local cabled network of the Ethernet
type.

12. (Currently Amended) The method according to claim 2, wherein said group of operating criteria includes a maximum number of documents awaiting processing Management method according to anyone of Claims 1 or 2, characterised in that it also includes, after the choosing step, a step of automatic configuration of the processing device.

13. (Currently Amended) The method according to claim 2 further comprising, after said second selection step, a step of automatic configuration of said one processing device Management method according to Claim 12, characterised in that the configuration step is performed as a function of the content of said document to be processed.

14. (Currently Amended) The method according to claim 13, wherein the configuration step is performed as a function of content of said document to be processed Management method according to Claim 12, characterised in that it also includes a step of analysing (E3) the content of said document to be processed before the configuration step.

15. (Currently Amended) The method according to claim 13 further comprising a step of analyzing content of said document to be processed before the configuration step Management method according to Claim 14, characterised in that it also includes a step of translating the document to be processed in the form of graphical instructions before the analysis step (E3).

16. (Currently Amended) The method according to claim 15 further comprising a step of translating the document to be processed in the form of graphical instructions before the analysis step Management method according to Claim 15, characterised in that the analysis step (E3) is performed using said graphical instructions.

17. (Currently Amended) The method according to claim 16, wherein the analysis step is performed using said graphical instructions Management method according to Claim 12, characterised in that it also includes a step (E8) of choosing a correct configuration of the processing device.

18. (Currently Amended) The method according to claim 15 further comprising a step of choosing a correct configuration of the processing device Management method according to Claim 14, characterised in that the choosing step (E8) is performed using the results of the analysis of the document to be processed.

19. (Currently Amended) The method according to claim 18, wherein the choosing step is performed using the results of the analysis of the document to be processed Management method according to Claim 14, characterised in that it also includes a step of obtaining additional data (E7) before the step of choosing a correct configuration.

20. (Currently Amended) The method according to claim 18 further comprising a step of obtaining additional data before the step of choosing a correct configuration Management method according to Claim 19, characterised in that said

~~obtaining step (E7) is performed by reading operating parameters of said processing device amongst at least a type of printing ink used and a type of paper.~~

21. (Currently Amended) The method according to claim 20, wherein said obtaining step is performed by reading operating parameters of said processing device among at least a type of printing ink used and a type of paper Management method according to Claim 19, characterised in that said obtaining step (E7) is performed by interrogating a user on operating parameters of said processing device amongst at least a draft operating mode, a type of printing ink and a type of paper.

22. (Currently Amended) The method according to claim 20, wherein said obtaining step is performed by interrogating a user on operating parameters of said processing device among at least a draft operating mode, a type of printing ink and a type of paper Management method according to Claims 1 or 2, characterised in that the content of said computer document is grouped together by page.

23. (Currently Amended) The method according to claim 1, wherein content of said computer document is grouped together by page Management method according to Claim 14, characterised in that the analysis step (E3) includes steps according to which:

- it is sought (E31) whether or not open graphical functions exist;
- it is sought (E33) whether or not closed graphical functions exist;
- it is sought (E35) whether or not representations in bitmap mode exist;

- it is sought (E37) whether or not text functions exist.

24. (Currently Amended) The method according to claim 15, wherein the analysis step comprises steps according to which:

it is sought whether or not open graphical functions exist;

it is sought whether or not closed graphical functions exist;

it is sought whether or not representations in bitmap mode exist; and

it is sought whether or not text functions exist Management method according to Claim 17, characterised in that the configuration choosing step is adapted to choose said correct configuration amongst a set of prerecorded configurations for said processing device and dependent on the content of the document.

25. (Currently Amended) The method according to claim 18, wherein the configuration choosing step is adapted to choose said correct configuration among a set of prerecorded configurations for said processing device, dependent on the content of the document Management method according to Claim 17, characterised in that the configuration choosing step is adapted to choose said correct configuration amongst a set of prerecorded configurations for said processing device and dependent on the content of the document and additional data obtained at said obtaining step.

26. (Currently Amended) The method according to claim 20, wherein the configuration choosing step is adapted to choose said correct configuration among a set of prerecorded configurations for said processing device, dependent on the content of the document and additional data Management method according to Claim 25, characterised in

that said set of prerecorded configurations includes at least a configuration for a draft operating mode, a configuration for the processing of images, a configuration for the processing of graphics, and a configuration for the processing of a text.

27. (Currently Amended) The method according to claim 26, wherein said set of prerecorded configurations includes at least a configuration for a draft operating mode, a configuration for the processing of images, a configuration for the processing of graphics, and a configuration for the processing of a text Management method according to Claim 26, characterised in that said set of prerecorded configurations includes several subsets containing a configuration for a draft operating mode, a configuration for the processing of images, a configuration for the processing of graphics, and a configuration for the processing of a text, each subset being defined for a unique combination of printing ink and paper type used.

28. (Currently Amended) The method according to claim 27, wherein said set of prerecorded configurations includes subsets containing a configuration for a draft operating mode, a configuration for the processing of images, a configuration for the processing of graphics, and a configuration for the processing of a text, wherein each subset is defined for a unique combination of printing ink and paper type used Management method according to anyone of Claims 1 or 2, characterised in that said processing includes a printing of said computer document, the processing device being a printer.

29. (Currently Amended) The method according to claim 1, wherein said processing includes a printing of said computer document, the processing device being a printer Management method according to anyone of Claims 1 or 2, characterised in that said processing includes a transfer of said computer document over a telephone communication network, the processing device being a modem or a facsimile machine.

30. (Currently Amended) The method according to claim 1, wherein said processing includes a transfer of said computer document over a telephone communication network, wherein the processing devices are modems or facsimile machines Device for managing the resources of a computer communication means for processing a computer document stored on a processing control device connected by said communication means to at least one processing device, characterised in that it has means of selecting at least one processing device of said communication means as a function of a first group of criteria relating to the functioning of said device, and a second group of criteria relating to its geographical situation.

31. (Currently Amended) A device for managing resources of a wireless computer communication network, wherein said network comprises at least one base station and a plurality of processing devices as mobile stations, for processing a computer document stored on a processing control device connected by said network to at least one of said processing devices, said managing device comprising:

locating means for locating said processing devices in said network so as to obtain a position of each of said devices in said network, said locating means comprising means for switching a station operating as a mobile station to a base station operating mode

when there are an insufficient number of base stations in said network to perform the locating, and

first selecting means for selecting, among said plurality of processing devices, at least one processing device as a function of a group of position criteria relating to the position of said processing devices, so as to obtain a first selected group of processing devices Management device according to Claim 30, characterised in that it also includes means of choosing a processing device amongst those selected by said selection means.

32. (Currently Amended) The device according to claim 31 further comprising second selecting means for selecting, among said first selected group of processing devices, one processing device as a function of a group of operating criteria relating to the functioning of said processing devices Management device according to Claim 30 or 31, characterised in that said group of operating criteria includes parameters relating to the configuration capability of the processing device.

33. (Currently Amended) The device according to claim 31, wherein said group of position criteria includes characteristics chosen from among a place in which said processing device is situated, the device's proximity with respect to a given place, the device's distance with respect to a given place, or the device's distance with respect to the control device Management device according to Claim 32, characterised in that the value of said parameters relating to the configuration capability is determined as a function of the content of said document to be processed.

34. (Currently Amended) The device according to claim 31 further comprising:

seeking means for seeking the presence of at least one base station in an environment of said processing device;

measuring means for, if the presence of at least one base station is detected, for each base station detected, measuring the position of said processing devices and determining the precision of the measurement made;

means for requesting a change of mode to request that a hybrid station operating in mobile station mode switch into base station operating mode if the precision of the measurement made is less than a predetermined value; and

switching means for enabling said hybrid station to switch from the mobile station operating mode to the base station operating mode, in order to constitute a new base station Management device according to anyone of Claims 30 or 31, characterised in that said group of operating criteria includes characteristics chosen in particular from amongst the type of processing device, the ability to process a colour file, the ability to process a file on both sides of the paper, the maximum resolution factor, the number of grey levels or the number of colour shades.

35. (Currently Amended) The device according to claim 34, wherein said measuring means is adapted to measure the position of said processing devices which are mobile stations from a plurality of information items transmitted by the detected base station Management device according to anyone of Claims 30 or 31, characterised in that said group of operating criteria includes a maximum number of documents awaiting processing.

36. (Currently Amended) The device according to claim 35, wherein said plurality of information items includes a value of the power at the radio signal received from the base station Management device according to Claim 30 or 31, characterised in that said group of geographical situation criteria includes characteristics chosen in particular from amongst the place where said processing device is situated, its proximity with respect to a given place, its distance with respect to a given place, or its distance with respect to the control device.

37. (Currently Amended) The device Device according to claim 35, wherein said plurality of information items further includes a value of a mobility parameter broadcast by the base station anyone of Claims 30 or 31, characterised in that said communication means is a local wireless network.

38. (Currently Amended) The device Device according to claim 35, wherein said plurality of information items further includes a value of a position paramctcr broadcast by the base station Claim 36, characterised in that it also has switching means, for switching at least one hybrid station operating in mobile station mode to base station operating mode, in order to determine the place where the processing device is situated, its proximity with respect to a given place, its distance with respect to a given place, or its distance with respect to the control device, when there are not sufficient base stations to do this.

39. (Currently Amended) The device Device according to claim 32,
wherein said group of operating criteria includes parameters relating to the configuration
capability of said processing devices Claim 38, characterised in that it has:

- seeking means, for seeking the presence of at least one base station (88) in
the environment of said processing device;

- measuring means for, if the presence of at least one base station (88) is
detected, for each base station detected, measuring the position of said processing device
and determining the precision ("Untermyrecision") of the measurement made;

- means of requesting change of mode, for requesting a hybrid station
operating in mobile station mode to switch into base station operating mode, if the
precision ("Untermyrecision") of the measurement made is less than a predetermined value
("Precision");

said switching means enabling said hybrid station to switch from mobile
station operating mode to base station operating mode, in order to constitute a new base
station.

40. (Currently Amended) The device Device according to claim 39,
wherein the value of said parameters relating to the configuration capability is determined
as a function of the content of said computer document to be processed anyone of Claims
30 or 31, characterised in that said communication mode is a local cabled network of the
Ethernet type.

41. (Currently Amended) The device according to claim 32, wherein said
group of operating criteria includes characteristics chosen from among a type of processing

devices, the ability to process a color file, the ability to process a file on both sides of a paper, a maximum resolution factor, a number of grey levels or a number of color shades, or a bandwidth available on the network Management device according to anyone of Claims 30 or 31, characterised in that it also has means for the automatic configuration of the processing device.

42. (Currently Amended) The device according to claim 32, wherein said group of operating criteria includes a maximum number of documents awaiting processing Management device according to Claim 41, characterised in that the configuration means act as a function of the content of said document to be processed.

43. (Currently Amended) The device according to claim 32 further comprising means for the automatic configuration of said one processing device Management device according to Claim 41, characterised in that it also has means of analysing the content of said document to be processed.

44. (Currently Amended) The device according to claim 43, wherein the configuration means performs the configuration as a function of content of said document to be processed Management device according to Claim 43, characterised in that it also has means of translating the document to be processed in the form of graphical instructions.

45. (Currently Amended) The device according to claim 43 further comprising means for analyzing content of said document to be processed before the

configuration Management device according to Claim 44, characterised in that the analysis means act using said graphical instructions.

46. (Currently Amended) The device according to claim 45 further comprising means for translating the document to be processed in the form of graphical instructions before the analysis Management device according to Claim 41, characterised in that it also has means of choosing a correct configuration of the processing device.

47. (Currently Amended) The device according to claim 46, wherein the analysis means performs the analysis using said graphical instructions Management device according to Claim 43, characterised in that the choosing means act using the results of the analysis of the document to be processed.

48. (Currently Amended) Device according to claim 46 further comprising means for choosing a correct configuration of the processing device Management device according to Claim 43, characterised in that it also has means of obtaining additional data.

49. (Currently Amended) The device according to claim 48, wherein the choosing means acts using the results of the analysis of the document to be processed Management device according to Claim 48, characterised in that said obtaining means act using the reading of operating parameters of said processing device amongst at least a type of printing ink used and a type of paper.

50. (Currently Amended) The device according to claim 48 further comprising means for obtaining additional data before choosing a correct configuration Management device according to Claim 48, characterised in that said obtaining means act using the interrogation of a user on operating parameters of said processing device amongst at least a draft operating mode, a type of printing ink and a type of paper.

51. (Currently Amended) The device according to claim 50, wherein said obtaining means acts by reading operating parameters of said processing device among at least a type of printing ink used and a type of paper Management device according to anyone of Claims 30 or 31, characterised in that the content of said computer document is grouped together by page.

52. (Currently Amended) The device according to claim 50, wherein said obtaining means acts by interrogation of a user on operating parameters of said processing device among at least a draft operating mode, a type of printing ink and a type of paper Management device according to Claim 43, characterised in that the analysis means include:

- first seeking means, for seeking whether or not open graphical functions exist;
- second seeking means, for seeking whether or not closed graphical functions exist;
- third seeking means, for seeking whether or not bitmap mode representations exist;
- fourth seeking means, for seeking whether or not text functions exist.

53. (Currently Amended) The device according to claim 31, wherein the content of said computer document is grouped together by page Management device according to Claim 46, characterised in that the configuration choosing means are adapted to choose said correct configuration from amongst a set of prerecorded configurations for said processing device and dependent on the content of the document.

54. (Currently Amended) The device according to claim 45, wherein the analysis means comprises:

first seeking means for seeking whether or not open graphical functions exist;

second seeking means for seeking whether or not closed graphical functions exist;

third seeking means for seeking whether or not bitmap mode representations exist; and

fourth seeking means for seeking whether or not text functions exist
Management device according to Claim 46, characterised in that the configuration choosing means are adapted to choose said correct configuration amongst a set of prerecorded configurations for said processing device and dependent on the content of the document and additional data supplied by said obtaining means.

55. (Currently Amended) The device according to claim 46, wherein the configuration choosing means is adapted to choose said correct configuration from among a set of prerecorded configurations for said processing device, dependent on the content of the document Management device according to Claim 54, characterised in that said set of

prerecorded configurations includes at least a configuration for a draft operating mode, a configuration for the processing of images, a configuration for the processing of graphics, and a configuration for the processing of a text.

56. (Currently Amended) The device according to claim 50, wherein the configuration choosing means is adapted to choose said correct configuration among a set of prerecorded configurations for said processing device, dependent on the content of the document and additional data Management device according to Claim 55, characterised in that said set of prerecorded configurations includes several subsets containing a configuration for a draft operating mode, a configuration for the processing of images, a configuration for the processing of graphics, and a configuration for the processing of a text, each subset being defined for a unique combination of type of printing ink and paper used.

57. (Currently Amended) The device according to claim 56, wherein said set of prerecorded configurations includes at least a configuration for a draft operating mode, a configuration for the processing of images, a configuration for the processing of graphics, and a configuration for the processing of a text Management device according to anyone of Claims 30 or 31, characterised in that said processing includes a printing of said computer document, the processing device being a printer.

58. (Currently Amended) The device according to claim 55, wherein said set of prerecorded configurations includes subsets containing a configuration for a draft operating mode, a configuration for the processing of images, a configuration for the

processing of graphics, and a configuration for the processing of a text, wherein each subset is defined for a unique combination of type of printing ink and paper used Management device according to anyone of Claims 30 or 31, characterised in that said processing includes a transfer of said computer document over a telephone communication network, the processing device being a modem or facsimile machine.

59. (Currently Amended) The device according to claim 31, wherein said processing includes a printing of said computer document, the processing device being a printer Mobile station in a wireless telecommunications network, characterised in that it has means adapted to implement a management method according to anyone of Claims 1 or 2.

60. (Currently Amended) The device according to claim 31, wherein said processing includes a transfer of said computer document over a telephone communication network, wherein the processing devices are modems or facsimile machines Mobile station in a wireless telecommunications network, characterised in that it has a management device according to anyone of Claims 30 or 31.

61. (Currently Amended) The method according to claim 1, wherein said communication network is a local wireless network Basic station in a wireless telecommunications network, characterised in that it has means adapted to implement a management method according to anyone of Claims 1 or 2.

62. (Currently Amended) The device according to claim 31, wherein said communication network is a local wireless network Base station in a wireless telecommunications network, characterised in that it has a management device according to anyone of Claims 30 or 31.

63. (Currently Amended) A mobile station in a wireless telecommunications network, having means adapted to implement a management method according to either one of claims 1 or 61 Wireless telecommunications network, characterised in that it has means adapted to implement a management method according to anyone of Claims 1 or 2.

64. (Currently Amended) A mobile station in a wireless telecommunications network, having a management device according to either one of claims 31 or 62 Wireless telecommunications network, characterised in that it has a management device according to any of Claims 30 or 31.

65. (Currently Amended) A base station in a wireless telecommunications network, having means adapted to implement a management method according to either one of claims 1 or 61 information storage means which can be read by a computer or microprocessor storing instructions of a computer program, characterised in that it implements a management method according to any of claims 1 or 2.

66. (Currently Amended) A base station in a wireless telecommunications network, having a management device according to either one of claims 31 or 62

Information storage means which is removable, partially or totally, and which can be read by a computer or microprocessor storing instructions of a computer program, characterised in that it implements a management method according to any of claims 1 or 2.

67. (Currently Amended) A wireless telecommunications network, having means adapted to implement a management method according to either one of claims 1 or 61 Computer program, characterised in that it contains sequences of instructions for implementing a management method according to any of claims 1 or 2.

68. (New) A wireless telecommunications network, having a management device according to either one of claims 31 or 62.

69. (New) An information storage means which can be read by a computer or microprocessor storing instructions of a computer program, said program implementing a method according to either one of claims 1 or 61.

70. (New) An information storage means which is removable, partially or totally, and which can be read by a computer or microprocessor storing instructions of a computer program, said program implementing a method according to either one of claims 1 or 61.

71. (New) A computer program product, loadable into the memory of a computer and stored on a computer readable medium, containing sequences of instructions for implementing a method according to either one of claims 1 or 61.